

METHOD AND APPARATUS FOR PRODUCING A PRESSURIZED
HIGH PURITY LIQUID CARBON DIOXIDE STREAM

ABSTRACT

The present invention provides a method and apparatus for producing a pressurized high purity liquid carbon dioxide stream in which a feed stream composed of carbon dioxide vapor is purified within a purifying filter and then condensed within a
5 condenser. The result liquid is then alternately introduced and dispensed from two first and second pressure accumulation chambers. The first and second pressure accumulation chambers are heated by electrical heaters to pressurize the liquid to the required or desired delivery pressure of the pressurized liquid carbon dioxide stream. Such stream is alternately extracted from the first and second pressure accumulation
10 chambers on a continuous basis in which one of the first and second pressure accumulation chambers acts in a dispensing role while the other is being filled. The pressurized liquid carbon dioxide stream can be further filtered within a particulate filter.

Sole Figure